Name:_____

New York State Testing Program

2023
Mathematics Test
Session 1

Grade 3

May 2–4, 2023

RELEASED QUESTIONS

TIPS FOR TAKING THE TEST

Here are some suggestions to help you do your best:

- Read each question carefully and think about the answer before making your choice.
- You have been provided with a ruler to use during the test. Use the ruler whenever you think it will help you to answer the question.

1 What factor makes the equation below true?

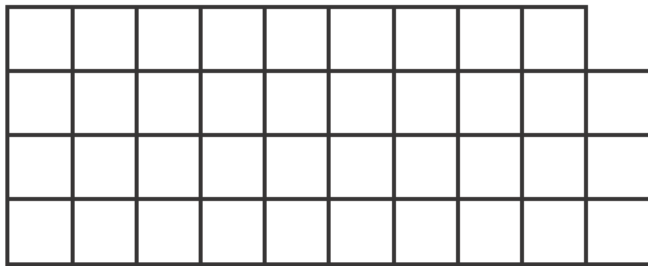$$8 \times \underline{\quad ? \quad} = 72$$

A 6

B 7

C 8

D 9

2 The figure shown below is made of unit squares.

KEY
□ = 1 square unit

What is the area, in square units, of the figure?

A 23

B 26

C 32

D 39

5 Point R is shown on the number line below.

R is located at 6/8 on a number line divided into eighths from 0 to 1.
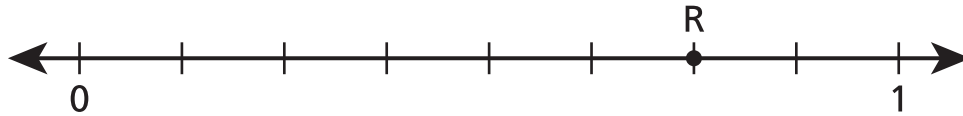
Which two fractions are equivalent to the value represented by point R ?

A $\frac{1}{4}$ and $\frac{2}{8}$

B $\frac{2}{4}$ and $\frac{6}{8}$

C $\frac{2}{4}$ and $\frac{4}{8}$

D $\frac{3}{4}$ and $\frac{6}{8}$

6 Madeline has exactly 7 coins in a bag. Each coin has a mass of 5 grams. What is the total mass, in grams, of all the coins in Madeline's bag?

A 2

B 12

C 35

D 40

GO ON

Session 1

15 A rule was used to create the number pattern shown below.

_?_, 9, _?_, 21, 27

What two numbers are missing from the pattern?

A   3 and 12

B   3 and 15

C   6 and 12

D   6 and 15

16 Which fraction is equivalent to $\frac{4}{4}$?
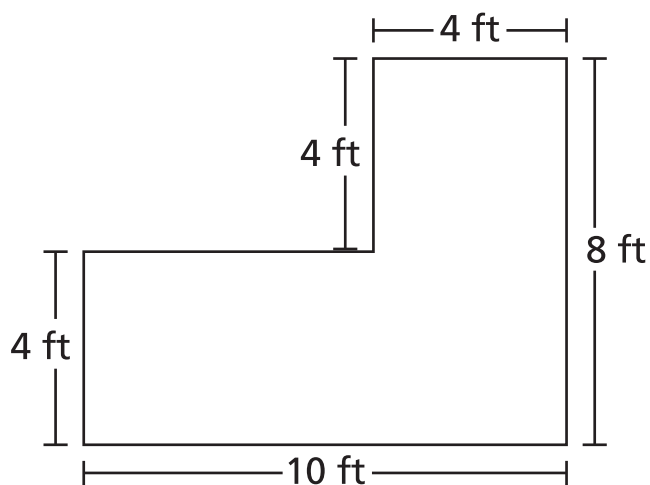
A $\frac{2}{1}$

B $\frac{2}{2}$

C $\frac{4}{1}$

D $\frac{4}{2}$

18 The shape shown below was created by combining two rectangles.

What is the area, in square feet, of the shape?

A 36

B 40
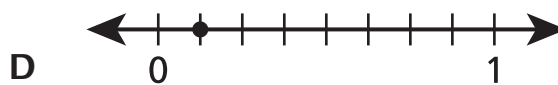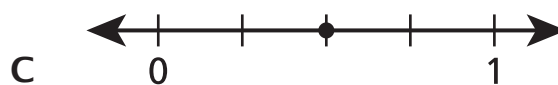
C 56

D 80

19 Which expression is equivalent to $4 \times (3 \times 2)$?

A $2 + (3 + 4)$

B $3 \times (4 \times 2)$

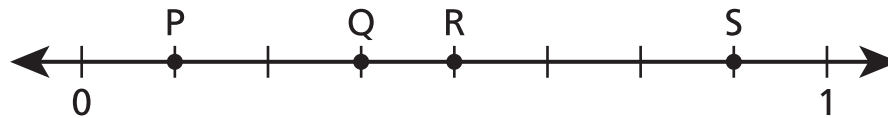**C** $2 \times (4 + 3)$

D $3 + (2 \times 4)$

20 Which number line shows a point located at $\frac{1}{4}$?

A   0 ———— 1

B   0 ———— 1

C   0 ———— 1

D   0 ———— 1

23 How many unit squares are needed to find the area of a rectangle that is 48 square units?

  A   6

  B   8

  C   24

  D   48

24 Which point on the number line shown below represents the fraction $\frac{4}{8}$?

  A   point P

  B   point Q

  C   point R

  D   point S

STOP

Name: _____

New York State Testing Program

2023
Mathematics Test
Session 2

Grade 3

May 2–4, 2023

Session 2

TIPS FOR TAKING THE TEST

Here are some suggestions to help you do your best:

- Read each question carefully and think about the answer before making your choice or writing your response.

- You have been provided with a ruler to use during the test. Use the ruler whenever you think it will help you to answer the question.

- Be sure to show your work when asked.

26 A student has 27 cupcakes in a box. There are 10 cupcakes with chocolate frosting and 11 cupcakes with vanilla frosting. The remaining cupcakes, *s*, have strawberry frosting. What is the value of *s*?

A 6

B 8

C 17

D 21

27 The area of the rectangle shown below can be found by using unit squares.

KEY
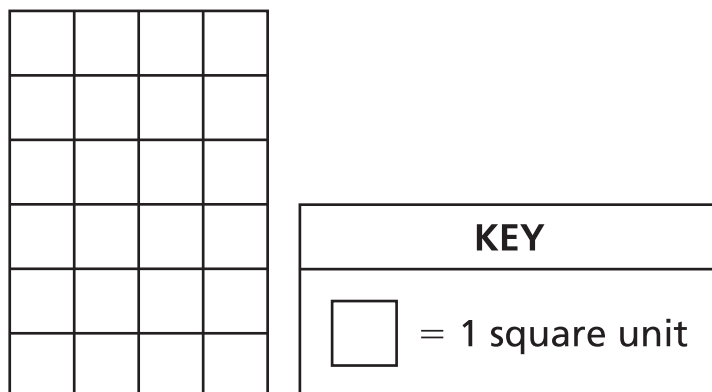
☐ = 1 square unit

What is the area, in square units, of the rectangle?

A 10

B 18

C 20

D 24

GO ON

28 Mr. Juarez buys 5 packs of notebooks. Each pack has 6 notebooks. He gives an equal number of notebooks to each of his 3 children. How many notebooks does each child get?
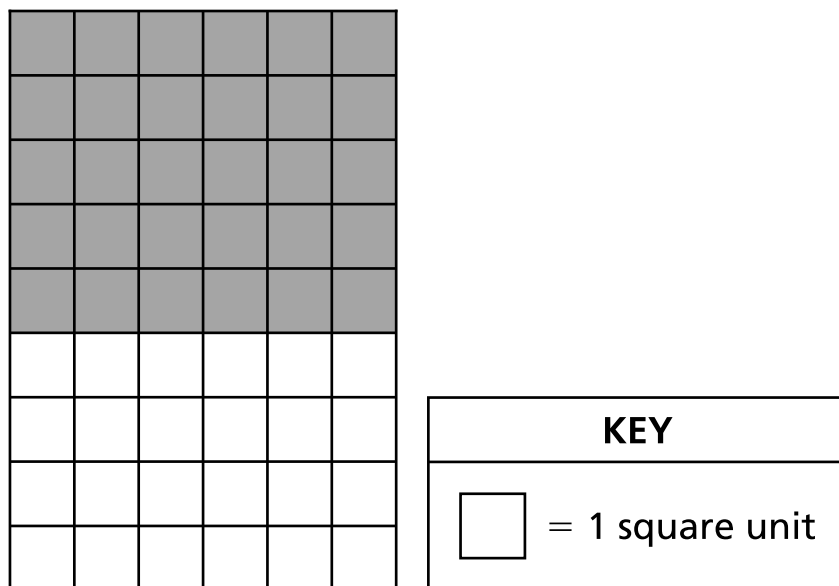
    A   8

    B   10

    C   11

    D   14

29 Which fraction is equivalent to $\frac{2}{8}$?

    A $\frac{1}{4}$

    B $\frac{1}{6}$

    C $\frac{2}{4}$

    D $\frac{2}{6}$

30 A shaded array and an unshaded array are combined to create the picture shown below.

KEY

☐ = 1 square unit

Which expression can be used to find the total area, in square units, of the entire picture?

A $(5 \times 6) + (4 \times 6)$

B $6 + 5 + 4$

C $(5 \times 6) \times (4 \times 6)$

D $6 \times 5 \times 4$

GO ON

31 This question is worth 1 credit.

How many groups of 9 are in 72 ?

Answer _____

32 **This question is worth 1 credit.**

A circle is cut into 8 equal-sized parts. What fraction of the circle is each part?

Answer _____ of the circle

33 This question is worth 1 credit.

A square has side lengths of 3 feet. What is the area, in square feet, of the square?
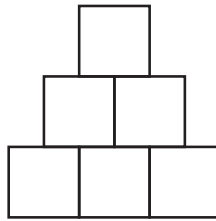
Answer _____ square feet

34 This question is worth 2 credits.

The figure shown below is made up of equal parts.

What fraction of the entire figure is each part?

Explain how you know your answer is correct.

_____

_____

_____

35 **This question is worth 2 credits.**

The beginning of a number pattern is shown below.

6, 10, 14, 18, . . .

The pattern continues. Is the 10th number in the pattern an even number or an odd number? Be sure to include the rule used for the pattern in your answer.

Explain how you know your answer is correct.

_____

_____

_____

36 This question is worth 2 credits.

John starts reading a book at 5:20 p.m. He reads for 45 minutes and then plays a video game for 30 minutes. At what time does John stop playing the video game?

Show your work.

Answer _____ p.m.

37 **This question is worth 2 credits.**

Four digits are listed below.

| 2 | 8 | 5 | 3 |

Use each digit shown to write a four-digit number with the digit 3 in the hundreds place. Then use what you know about place value to identify the place value of each digit in the number you wrote.

Explain how you know your answer is correct.

_____

_____

_____

38 **This question is worth 3 credits.**

Sandra ate $\frac{2}{6}$ of a pizza and George ate $\frac{3}{6}$ of the same pizza. Sandra says she ate

more of the pizza than George. George says he ate more of the pizza than Sandra.

Who is correct? Be sure to include a correct comparison statement using $>$, $<$, or $=$

and what you know about fractions or parts of a whole in your answer.

Explain your answer.

_____

_____

_____

STOP